



RGL4 (T-19): sc-86822

BACKGROUND

Ral GDS (Ral guanine nucleotide dissociation stimulator) is a guanine nucleotide exchange factor (GEF) that activates Ral and is implicated in oncogenic Ras-induced cell transformation. RGL4 (Ral guanine nucleotide dissociation stimulator-like 4), also known as Rgr, is a 473 amino acid protein that localizes to the cytoplasmic vesicle of cells. Belonging to the GEF family of proteins, RGL4 induces phosphorylation of ERKs, p38 and JNK kinases, and it increases the levels of GTP bound forms of Ral and Ras. Ras activation is crucial for the transforming activity of RGL4. Due to its similarity to Ral GDS, RGL4 may be implicated in carcinogenesis.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: RGL4 (human) mapping to 22q11.23.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

SOURCE

RGL4 (T-19) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of RGL4 of human origin.

PRODUCT

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-86822 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

RGL4 (T-19) is recommended for detection of RGL4 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for RGL4 siRNA (h): sc-76397, RGL4 shRNA Plasmid (h): sc-76397-SH and RGL4 shRNA (h) Lentiviral Particles: sc-76397-V.

Molecular Weight of RGL4: 52 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

RESEARCH USE

For research use only, not for use in diagnostic procedures.